

## Message Text

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ACTION EB-07

INFO OCT-01 CIAE-00 COME-00 DODE-00 NSAE-00 TRSE-00 EUR-12

ERDA-05 ISO-00 ACDA-05 EA-06 /036 W

----- 105894

R 211531Z APR 75

FM USMISSION OECD PARIS

TO SECSTATE WASH DC 6659

C O N F I D E N T I A L SECTION 01 OF 02 OECD PARIS 10060

EXCON

E.O. 11652 XGDS1

TAGS: ESTC, COCOM

SUBJECT: COCOM LIST REVIEW - IL 1587 - QUARTZ

CRYSTALS

REFS: A. COCOM DOC (REV) 1587/1

B. STATE 87444

C. COCOM DOC REV (74) 1587/2

SUMMARY: DISCUSSION OF THIS ITEM MOVED THE COMMITTEE FAR ENOUGH TOWARD ACCEPTABLE COMPROMISE THAT IT SHOULD BE POSSIBLE TO PREPARE FINAL US INSTRUCTIONS FOR USE BETWEEN ROUNDS TO ELIMINATE OR AT LEAST TO REDUCE THE NEED FOR DISCUSSION IN ROUND III. ACTION REQUESTED: EARLY TRANSMISSION OF INSTRUCTIONS TO LIFT RESERVE ON THOSE PROPOSALS ON WHICH US IS ALONE AND INSTRUCTIONS FOR ROUND III ON BALANCE. END SUMMARY.

NOTE: SYMBOL "#" REPRESENTS PLUS SIGN IN TEMPERATURE CITATIONS BELOW. DEGREES ARE TO BE UNDERSTOOD.

1. CANADDA OPENED DISCUSSION ON APRIL 17 BY CIRCULATING MINOR AMENDMENTS TO (B) OF ITS PREVIOUS PROPOSAL (REF C) RESULTING FROM CANADIAN/UK BILATERAL CONSULTATIONS. IN VOTING, ALL DELS ACCEPTED THE CANDAIAN (A)(1) EXCEPT BELGIUM WHICH RESERVED IN FAVOR OF ITS OWN PROPOSAL TO  
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DELETE (A) AND (B). JAPAN WITHDREW ITS PROPOSAL TO DELETE

THE WHOLE ITEM.

2. THE NEWLY REVISED CANADIAN PROPOSAL FOR (B) RETAINS THE PRESENT HEADING AND (1) BUT AMENDS SUBITEMS (2) AND (3). THE UK DEL EXPLAINED THAT THE PROBLEM OF SETTING TEMPERATURES FOR TEMPERATURE COMPENSATED CRYSTAL OSCILLATORS (TCXO'S) IS THAT THERE ARE SEVERAL MINIMAL TEMPERATURES AT WHICH MANUFACTURERS WILL CERTIFY THE STABILITY OF THEIR TCXO'S AND IT IS IMPOSSIBLE TO TELL THE TEMPERATURE POINT AT WHICH STABILITY FOR A TCXO HAS BEEN CERTIFIED. IN THE UK TECHNICAL VIEW, CRYSTALS WHICH OPERATE OVER A TEMPERATURE RANGE OF LESS THAN 120 DEGREES C. CAN NOT BE OF STRATEGIC SIGNIFICANCE. FOR THAT REASON THE UK BELIEVES THAT IF THE CANADIAN OPERATING TEMPERATURE RANGE FIGURE OF 120 DEGREES C WERE ADOPTED, A STABILITY OF 0.0001 PERCENT (PARTS PER MILLION --PPM) WOULD BE AN APPROPRIATE CUTOFF. THE NETHERLANDS OBSERVED THAT IT CONSIDERED THAT THE OPERATING RANGE FOR MILITARY TCXO'S IS -55 DEGREES TO +85 C. (140 DEGREES) AND NORMAL CIVIL TCXO OPERATING RANGE IS -20 TO +70 C (90 DEGREES). CANADA EXPLAINED THAT THE INTENTION OF ITS MILITARY AUTHORITIES WAS TO FREE TCXO'S FOR SSB MOBILE SERVICE, BUT AT THE SAME TIME TO AVOID RELEASING THOSE FOR MILITARY MANPACK RADIO USE. IT OBSERVED THAT THE UK FIGURE OF 0.00015 MIGHT BE GETTING "TOO CLOSE." THE UK CIRCULATED A UNITRA (POLISH) DATA SHEET OFFERING GKKT DEVICES WITH AN OPERATING TEMPERATURE RANGE OF 130 DEGREES C. AND STABILITY OF 0.0001 PPM. (IT IS UNEMBARGOED BECAUSE ITS OPERATING TEMPERATURE RANGE IS LESS THAN 160 DEGREES C., BUT IT HAS HIGH STABILITY AND; 4 --:74--:6 9;34 58.3.). FRANCE WONDERED WHY CANADA HAD RETAINED THE PRESENT (B)(1) WHEN IN PARA. 8 REF. A. FRANCE HAD AGREED TO THE CANADIAN PROPOSAL ONLY WITH ADDITION OF A TEMPERATURE RANGE (GIVEN A STABILITY FIGURE). TEMPERATURE RANGE HAD BEEN ADDED IN (B)(2) AND (C) TO STABILITY ALONE, BUT WITHOUT THE LATTER, AS IN (B)(1), IT APPEARED USELESS IN THE FRENCH VIEW. THE CANADIAN DEL REPLIED THAT HIS AUTHORITIES BELIEVE THAT ANY TCXO OPERATING ACROSS A RANGE GREATER THAN 160 DEGREES C. SHOULD BE EMBARGOED REGARDLESS OF CONFIDENTIAL

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STABILITY. HE ASKED FOR A SUGGESTION ON A SECOND PARAMETER AND THE FRENCH EXPERT SUGGESTED ADDING A "Q" FACTOR.

3. IN VOTING, FRANCE RESERVED ON (B)(1) (WHICH IS ONLY SYMBOLIC BECAUSE (B)(1) IS UNCHANGED FROM THE PRESENT DEFINITION), AND AGREED WITH THE UK CUTOFF OF 0.00015 FOR (B)(2), AND ASKED FOR THE SAME MATHEMATICAL FORMAT AS

IN IL 1529. ITALY, BELGIUM, UK, US AND FRANCE RESERVED ON

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TRSE-00 ERDA-05 ACDA-05 EA-06 /036 W  
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THE CANADIAN PROPOSAL.

4. A VOTE WAS THEN TAKEN ON THE UK COUNTERPROPOSAL FOR (B)(2) WORDED AS FOLLOWS: "(2) FOR TEMPERATURE COMPENSATED CRYSTAL OSCILLATORS DESIGNED FOR OPERATION OVER A TEMPERATURE RANGE WIDER THAN 120 DEGREES C. (216 F) AND WHICH HAVE A FREQUENCY TOLERANCE EQUAL TO OR BETTER THAN 1.5 IN 10 TO THE MINUS SIXTH POWER OVER THIS TEMPERATURE RANGE." CANADA, AND US RESERVED FOR STUDY; ITALY AND BELGIUM RESERVED IN FAVOR OF DELETION; AND THE OTHER DELS APPROVED THE UK PROPOSAL AND WERE OPEN MINDED ON THE CANADIAN ONE. THE UK STRESSED THAT THEY WHOLEHEARTEDLY BELIEVED THAT DELETION IS IN ORDER, BUT HAD OFFERED THEIR PROPOSAL IN COMPROMISE AND TRUSTED, ON THE BASIS OF PARA. 30 REF A, IN WHICH THE US SUGGESTED WILLINGNESS TO COMPROMISE BY PERMITTING UNANIMOUS AGREEMENT AS SOON AS POSSIBLE.

5. CANADIAN PARAGRAPH (3)"FOR NON-TCXO'S DESIGNED FOR USE IN OVENS, HAVING A FREQUENCY STABILITY OF 1 IN 10 TO THE MINUS SIXTH ..." DREW RESERVES FROM GERMANY, ITALY AND FRANCE BECAUSE CANADA POSTULATED STABILITY AT THAT FIGURE, WHEREAS THE US HAD INDICAT-

ED ABSENCE OF CONCERN FOR OVEN CONTROLLED CRYSTAL  
OSCILLATORS IN PARA. 6 REF A. THOSE DELEGATIONS SUGGEST-  
ED CUTOFFS OF FROM 10 TO MINUS SEVEN OR NINE AND RE-  
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SERVED ON THE CANADIAN CUTOFF. CANADA AND THE US RE-  
SERVED ON THE PROPOSED PARAMETERS FOR FURTHER STUDY.

6. ALL DELS EXCEPT THE US APPROVED THE JAPANESE PROPO-  
SAL OF APRIL 17 TO AMEND NOTE 1 (A) TO READ " (A) DE-  
SIGNED FOR OPERATION AS INTERMEDIATE FREQUENCY FILTERS  
OPERATING AT 10.5 TO 11 MHZ OR 21 TO 22 MHZ". US  
INSTRUCTIONS REF B PARA WERE DIFFICULT TO UNDERSTAND BE-  
CAUSE EXISTING DEFINITION TREATS OSCILLATORS"IN THE  
RANGE 20-25 MHZ" UNDER AN, AND JAPAN IS ONLY ASKING FOR  
A MARGINAL .6 MHZ ABOVE THE EXISTING FIGURE. THE UK  
ASKED THE USDEL SPECIFICALLY TO EXPLAIN THE SIGNIFICANT  
STRATEGIC DIFFERENCES BETWEEN THE PRESENT 21.4 KHZ AND  
THE PROPOSED 22 KHZ. IN THIS CONNECTION, SEE ALSO USDEL  
COMMENTS IN PARA. 4, OECD PARIS 9869.

7. ACTION REQUESTED: FINAL INSTRUCTIONS SHOULD AUTHOR-  
IZE THE LIFTING OF US RESERVES ON THE UK (B)(2), ON THE  
MAJORITY CUTOFF IN (3) WHICH CONCERNS OVEN CONTROLLED OS-  
CILLATORS, AND THE ADJUSTMENT REQUESTED FOR NOTE 1 (A).  
NON-COCOM AVAILABILITY JUSTIFIES THE FIRST AND SECOND  
CHANGES, AND THE THIRD IS A VERY MINOR ADJUSTMENT. IT IS  
LIKELY THAT PROMPT LIFTING OF US RESERVES BETWEEN ROUNDS  
WILL ENCOURAGE THE OTHER RESERVING DELEGATIONS TO LIFT  
THEIRS AS WELL.  
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## Message Attributes

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